

TOP SECRET

Copy **124**  
35 Pages

NPIC/R-71/64  
February 1964

PHOTOGRAPHIC INTERPRETATION REPORT

SA-1 SAM SITES, MOSCOW, USSR,  
SOUTHWEST QUADRANT



CIA



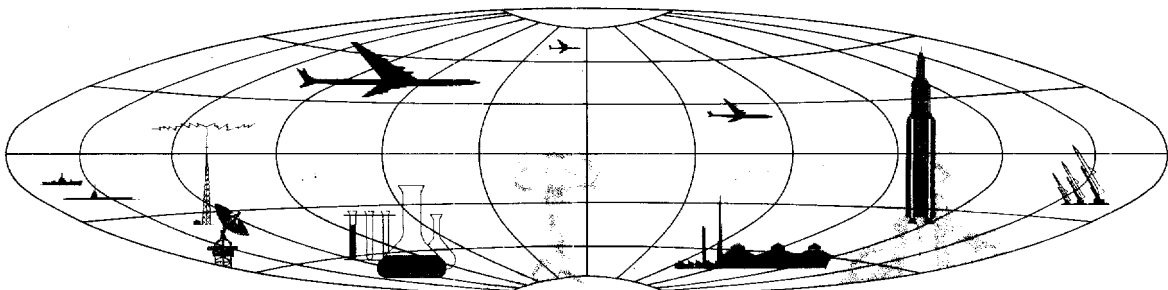
DIA

Handle Via **TALENT - KEYHOLE** Control Only

DECLASS REVIEW BY <sup>WARNING</sup> NIMA / DoD

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



TOP SECRET

PREFACE

In order to provide a foundation for the continuing analysis of Moscow air defenses, a detailed survey of KEYHOLE photography of SA-1 SAM sites surrounding the city has been undertaken under NPIC Project JN-212/62. This report, a partial answer to CIA requirement C-RR3-80375, covers the sites in the southwest quadrant (Figure 1). The sites in the northeast quadrant are covered in NPIC/R-64/64. The sites in the southeast and the northwest quadrants are in preparation.

For each site a photograph is provided, significant changes since the first KEYHOLE coverage are noted, and all KEYHOLE photographic coverage through [REDACTED] is listed. All map references are to US Air Target Charts (USATC), Series 200, second edition, unless otherwise indicated.

25X1D

NPIC/R-71/64

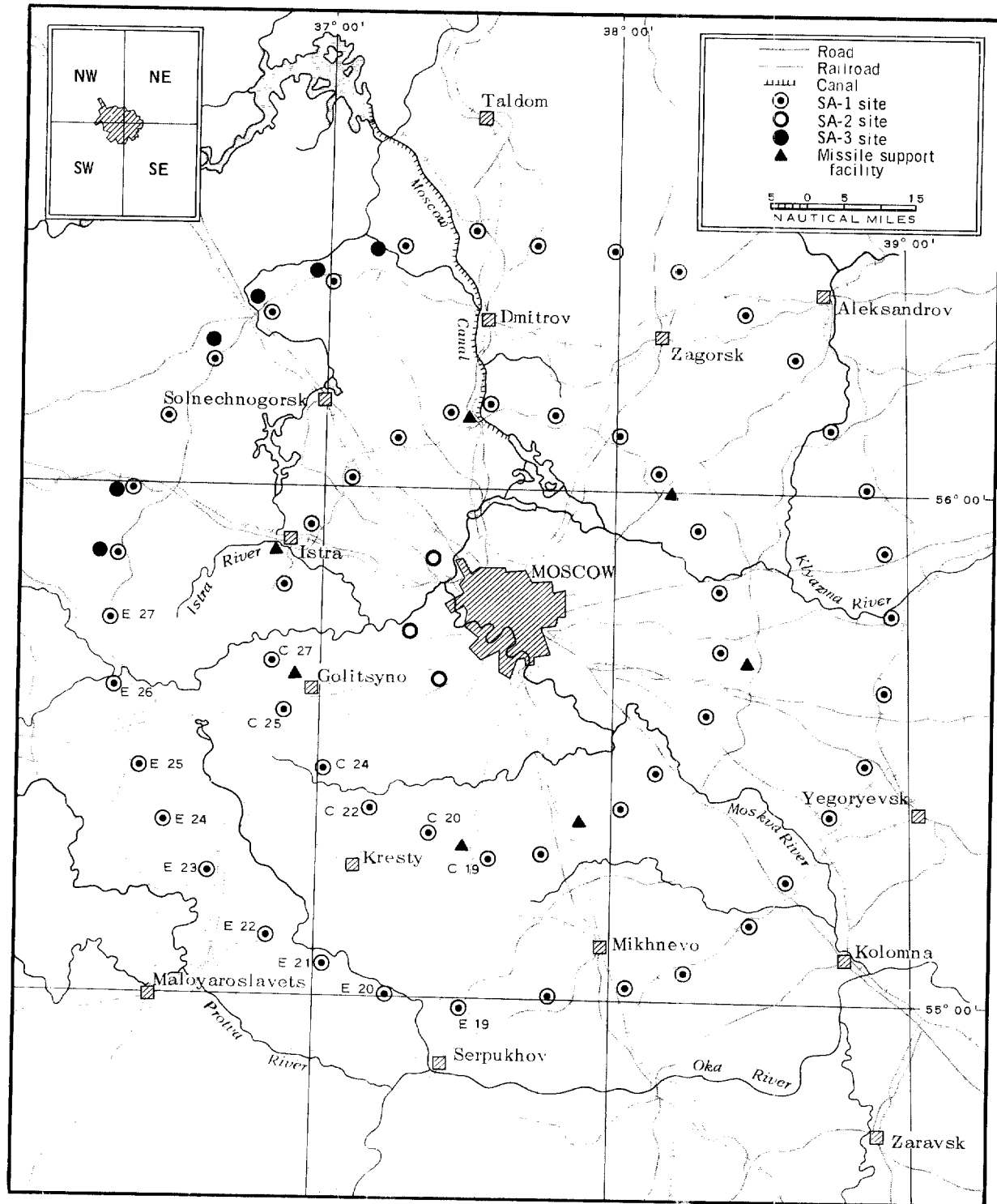


FIGURE 1. LOCATION MAP.

NPIC R-6988 (1/64)

NPIC/R-71/64

MOSCOW SAM SITE C19-1

25X1A

NPIC Target No: 0167-121-G

Coords: 55-17N 37-34E

Map Ref: DIA Sheet 0167-5HL, 2d ed, Apr 63(S)

First KEYHOLE coverage: [REDACTED]

25X1D

25X1D

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, a secured area (Figure 2, Item 1) was observed containing nine drive-through missile checkout/storage buildings, each 310 by 100 feet. No changes in the site were observed between [REDACTED]

25X1D

25X1D

25X1D

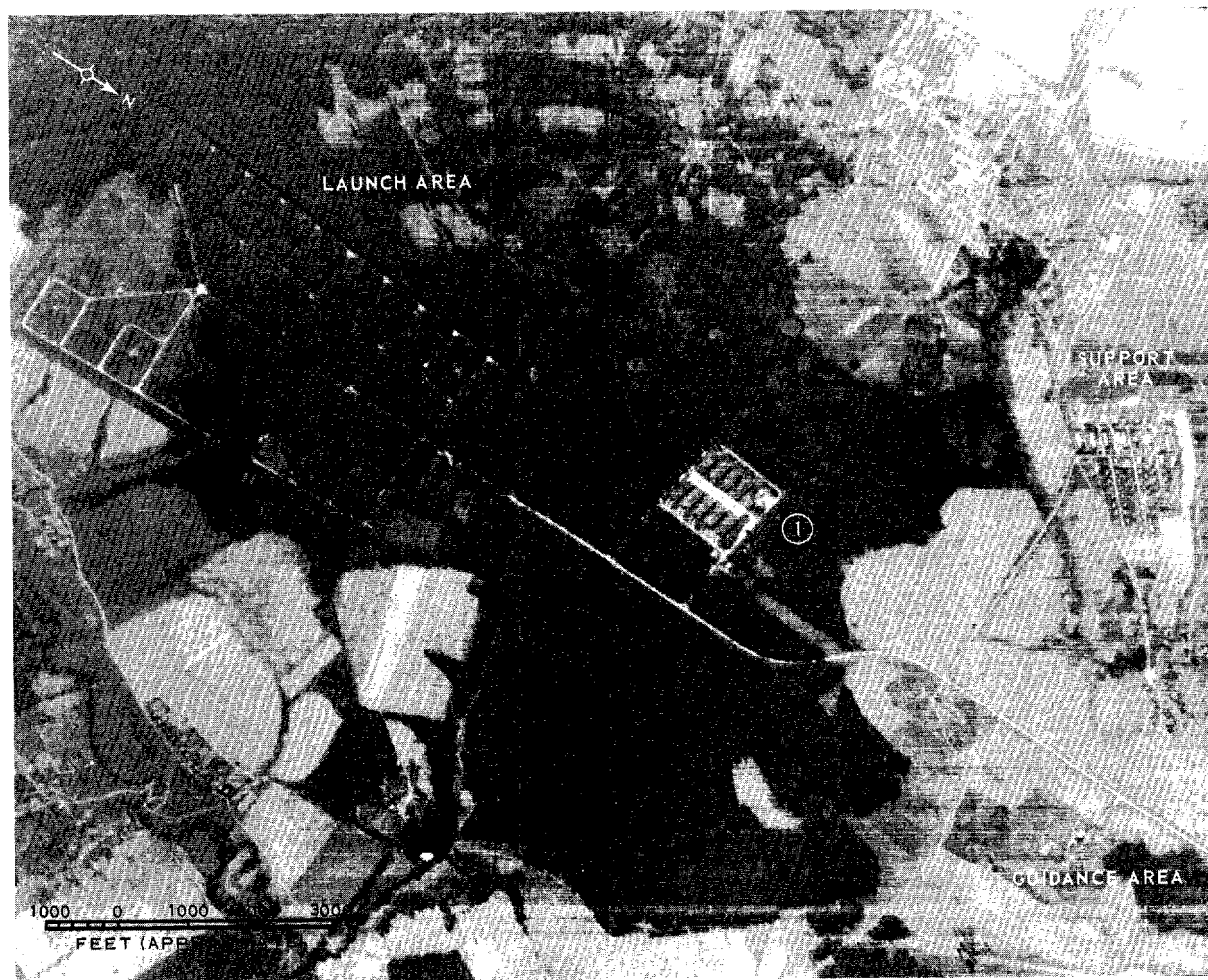


FIGURE 2. MOSCOW SAM SITE C19-1, [REDACTED]

NPIC H-6989 (1/64)

25X1D

**25X1D**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

NPIC/R-71/64

MOSCOW SAM SITE C20-1

25X1A

NPIC Target No: 0167-121-H

Coords: 55-20N 37-22E

Map Ref: DIA Sheet 0167-5HL, 2ded, Apr 63 (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 3).

25X1D

25X1D

25X1D

25X1D

25X1D



FIGURE 3. MOSCOW SAM SITE C20-1, [REDACTED]

25X1D

**25X1D**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

MOSCOW SAM SITE C-22-1

NPIC Target No: 0167-121-I

Coords: 55-22N 37-10E

Map Ref: DIA Sheet 0167-41IL, 2ded, Mar 63 (S)

First KEYHOLE coverage:

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 4).

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

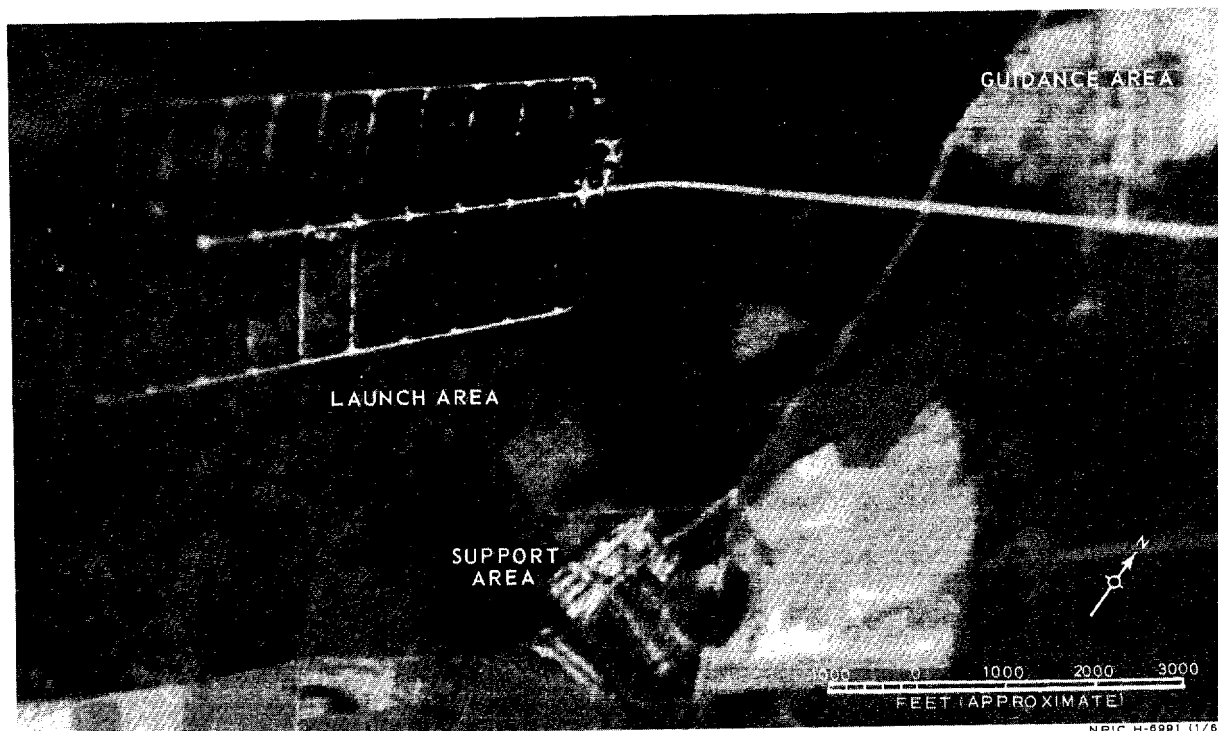
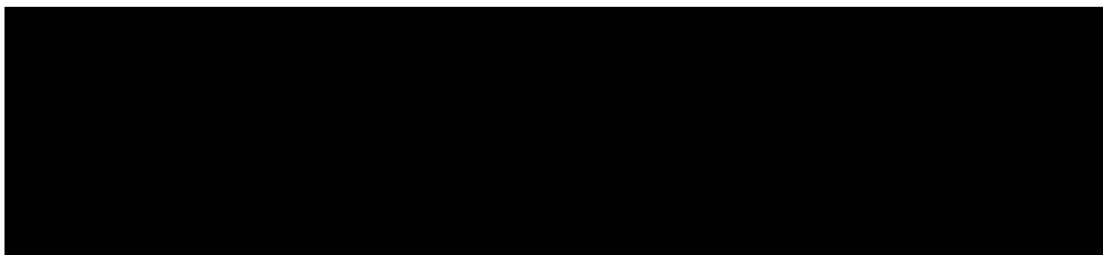


FIGURE 4. MOSCOW SAM SITE C22-1, [REDACTED]



NPIC/R-71/64

MOSCOW SAM SITE C24-1

25X1A

NPIC Target No: 0167-121-J

Coords: 55-27N 36-59E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete, although the support area was not then visible. The entire site was first visible in [REDACTED] No other changes in the site were observed between [REDACTED] (Figure 5).

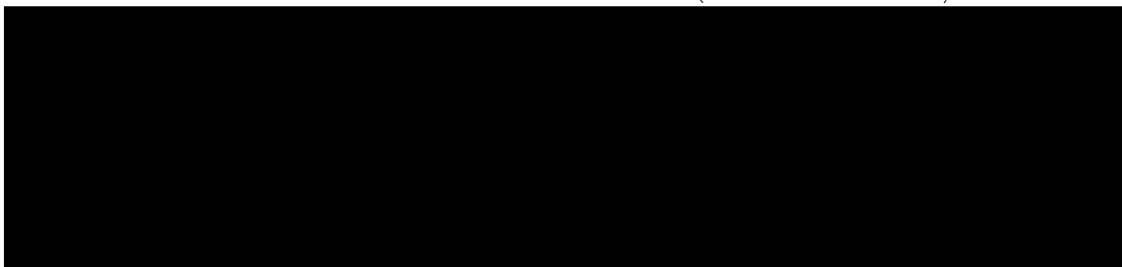
25X1D

25X1D

25X1D

25X1D  
25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

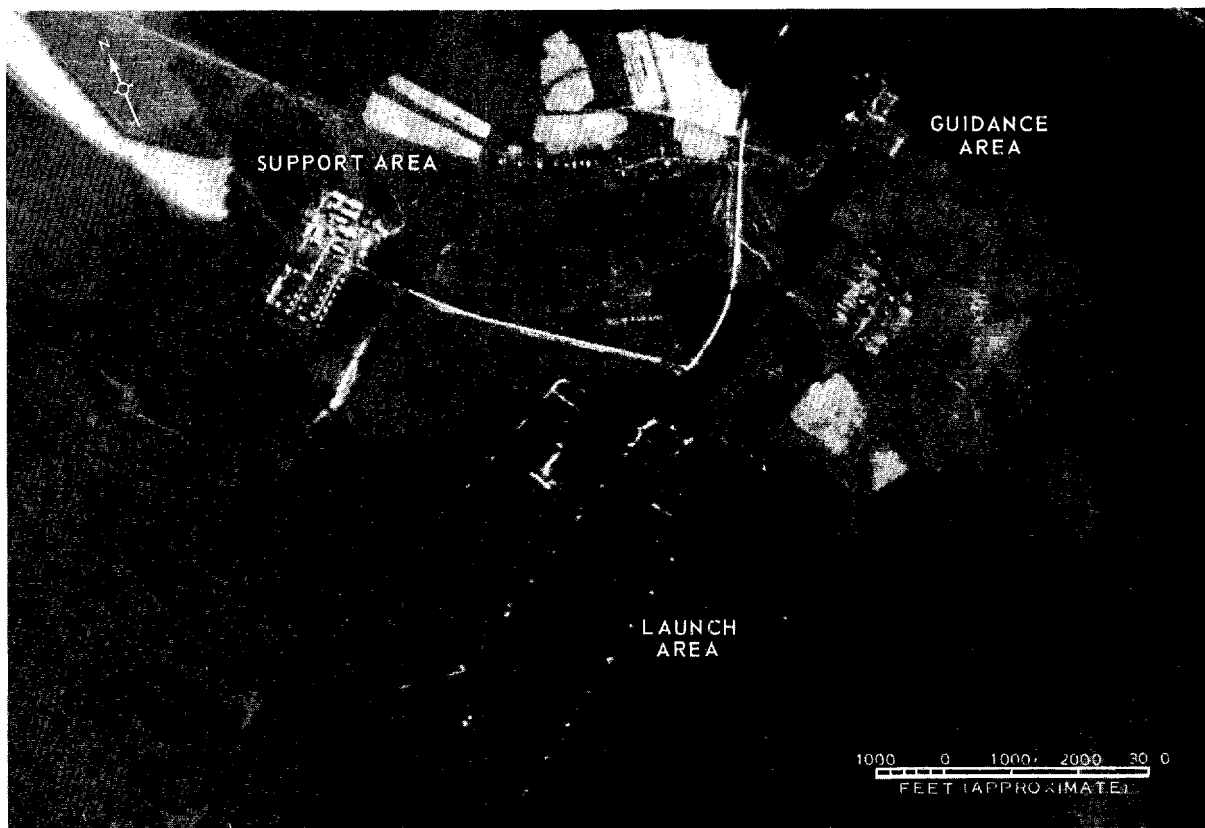


FIGURE 5. MOSCOW SAM SITE C24-1 [REDACTED]

NPIC H-6992 (1/64)

25X1D

NPIC/R-71/64

MOSCOW SAM SITE C25-1

25X1A

NPIC Target No: 0167-121-K

Coords: 55-34N 36-52E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at [REDACTED]

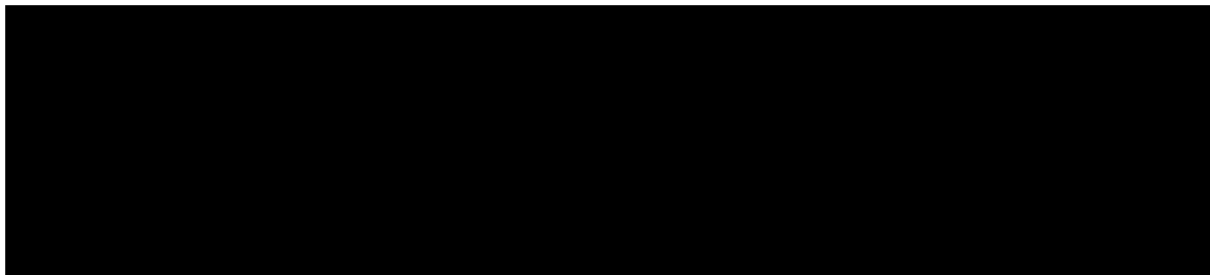
which time the site was complete. At that time, a partial outline of an unidentified activity (Figure 6, Item 1) was observed at the north-northeast corner of the launch area. This unidentified activity appeared on photography of [REDACTED] to be a probable secured area containing a probable square structure and a possible round structure. No other changes were observed at the site between [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)



25X1D

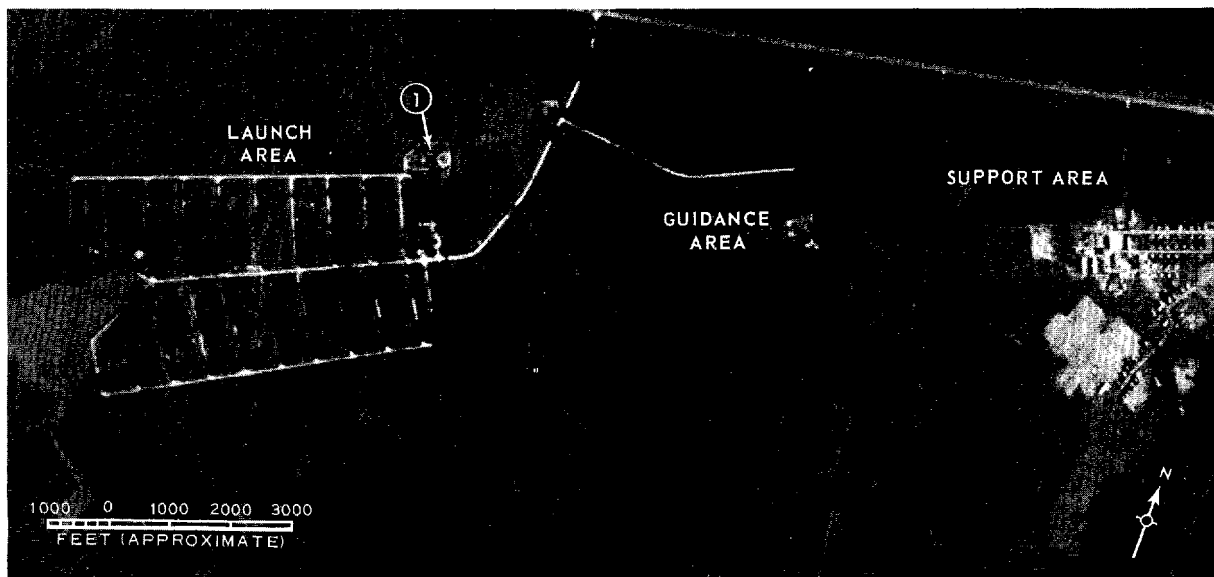


FIGURE 6. MOSCOW SAM SITE C25-1

25X1D

NPIC/R-71/64

MOSCOW SAM SITE C27-1

25X1A

NPIC Target No: 0167-121-L

Coords: 55-41N 36-49E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 7).

25X1D

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

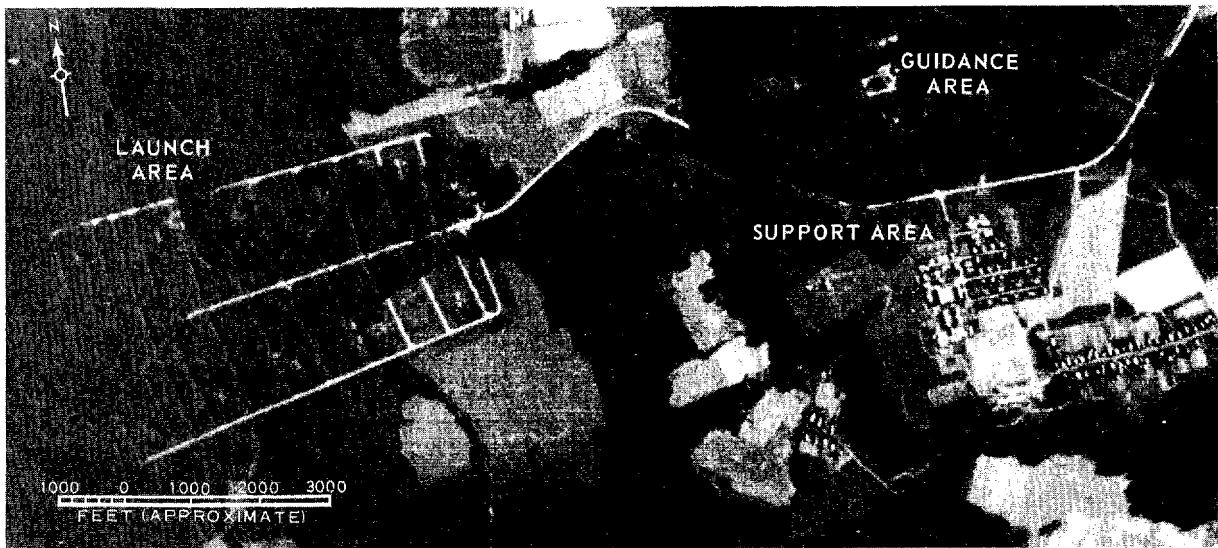


FIGURE 7. MOSCOW SAM SITE C27-1

25X1D

NPIC/R-71/64

MOSCOW SAM SITE E19-1

NPIC Targe No: 0167-122-I

Coords: 55-00N 37-29E

Map Ref: DIA Sheet 0167-10IIL, 2ded, Feb 63 (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 8).

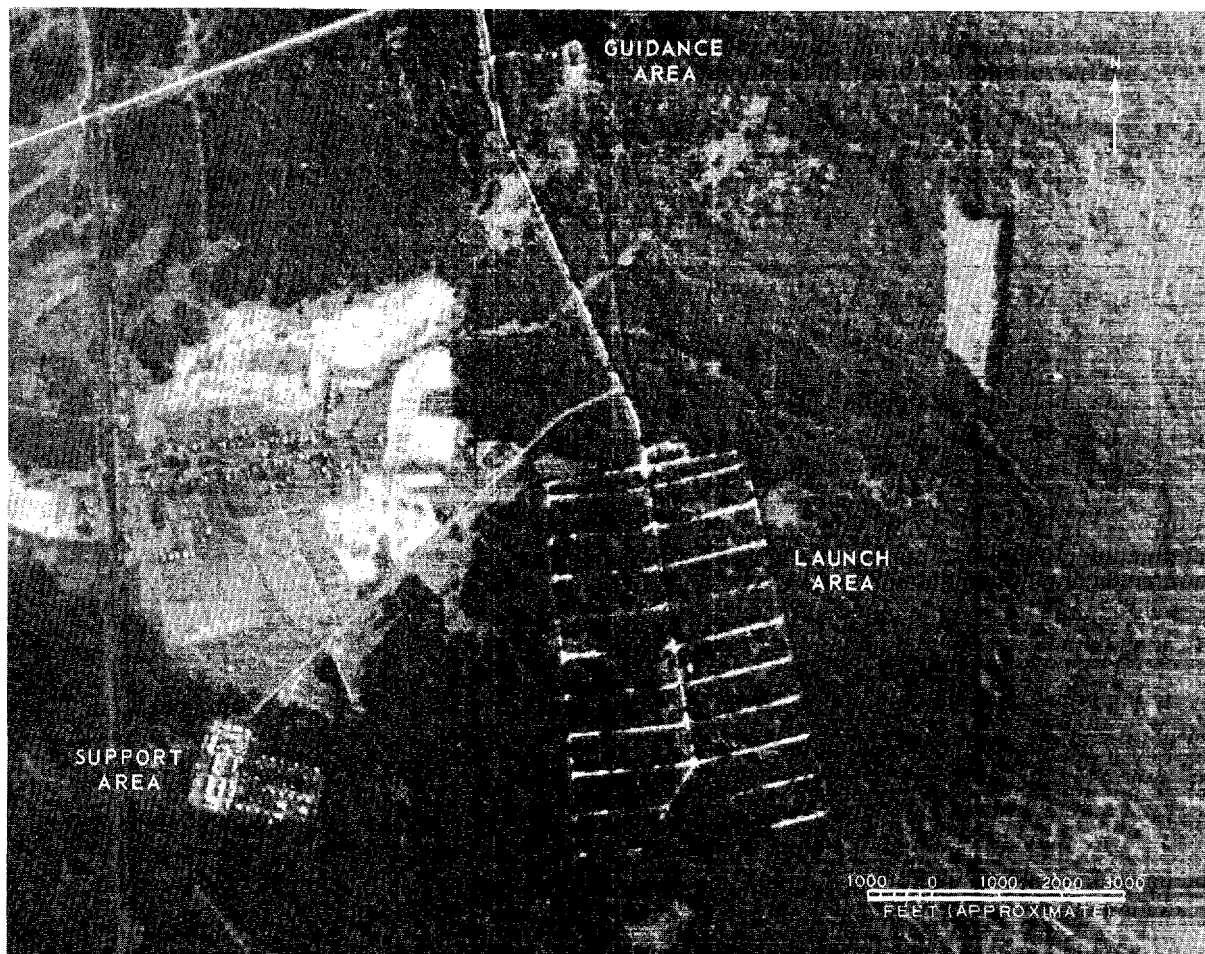


FIGURE 8. MOSCOW SAM SITE E19-1, [REDACTED]

NPIC H-5995 (1/64)

25X1D

**25X1D**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

NPIC/R-71/64

MOSCOW SAM SITE E20-1

NPIC Target No: 0167-122-J

Coords: 55-00N 37-14E

Map Ref: DIA Sheet 0167-10HL, 2d ed, Feb 63 (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED]

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

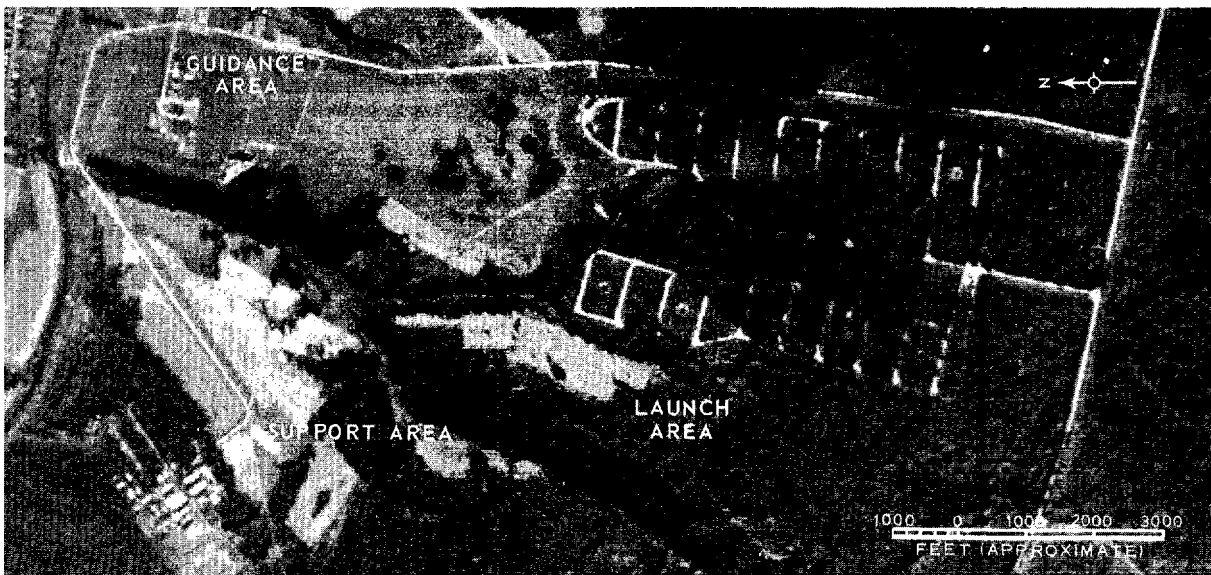
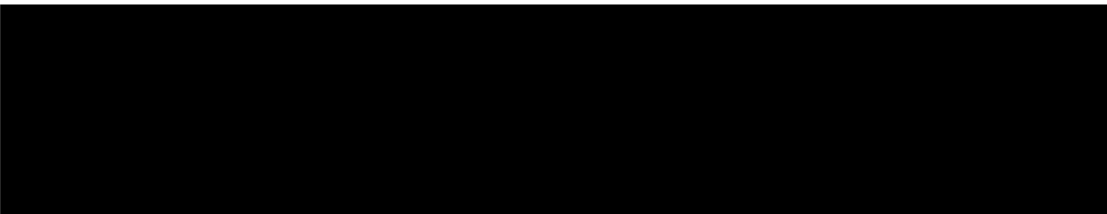


FIGURE 9. MOSCOW SAM SITE E20-1, [REDACTED]

NPIC H-6996 (1/64)

NPIC/R-71/64

MOSCOW SAM SITE E21-1

25X1A

NPIC Target No: 0167-122-K

Coords: 55-04N 37-01E

Map Ref: USAF Sheet 0167-9A, 1st ed, Jan 59 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and semidarkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 10).

25X1D

25X1D

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

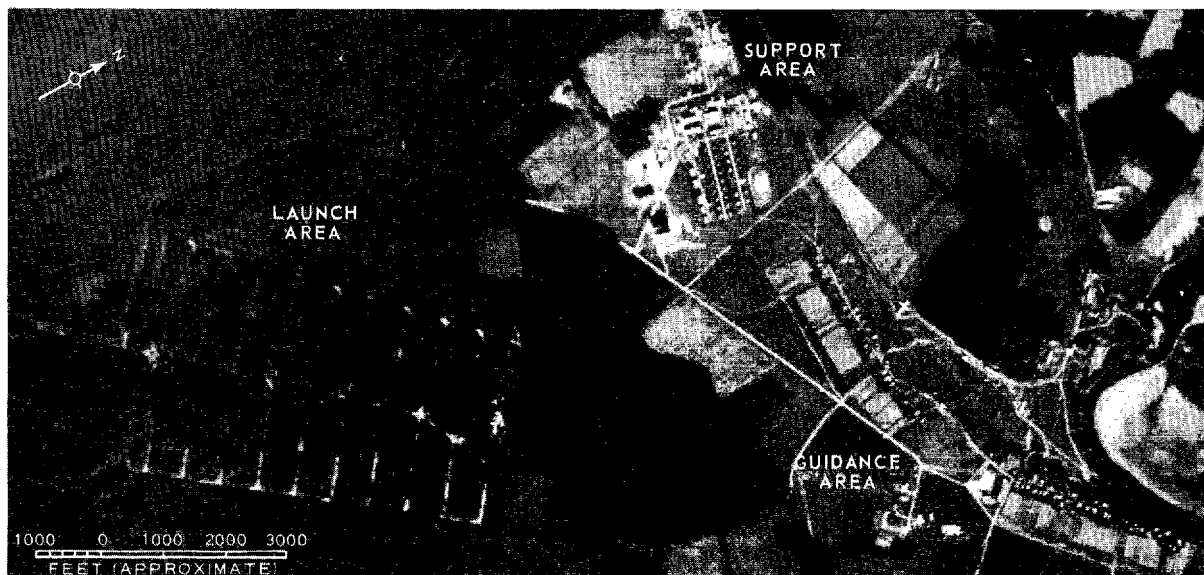


FIGURE 10. MOSCOW SAM SITE E21-1, [REDACTED]

25X1D

MOSCOW SAM SITE E22-1

25X1A

NPIC Target No: 0167-122-L

Coords: 55-09N 36-50E

Map Ref: USAF Sheet 0167-9A, 1st ed, Jan 59 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 11).

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D

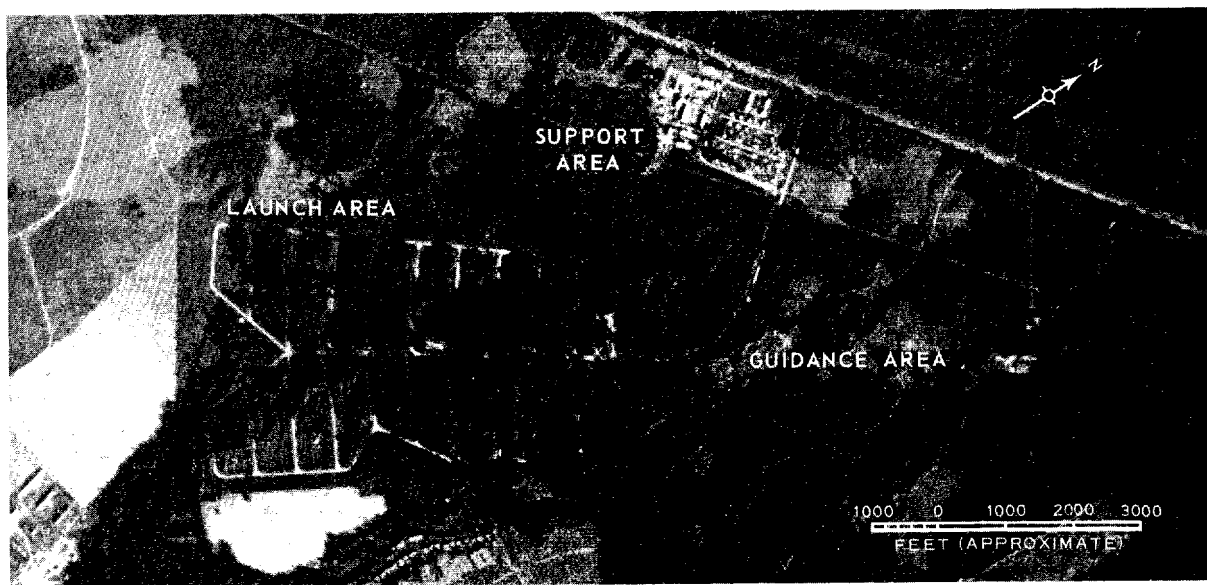
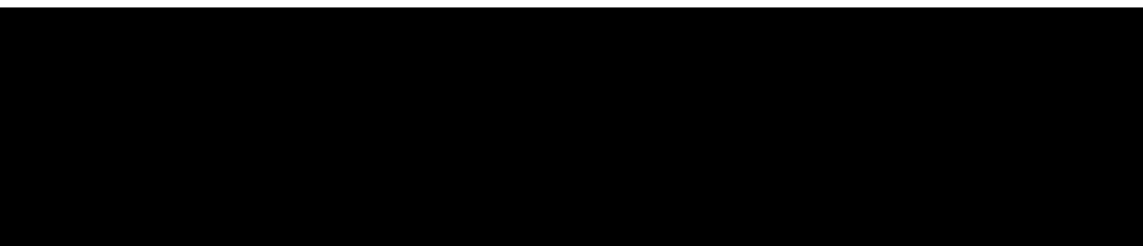


FIGURE 11. MOSCOW SAM SITE E22-1. [REDACTED]

25X1D



NPIC/R-71/64

MOSCOW SAM SITE E23-1

25X1A

NPIC Target No: 0167-122-M

Coords: 55-14N 36-38E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: undetermined because of haze and semidarkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 12).

25X1D

25X1D

25X1D

25X1D

25X1D

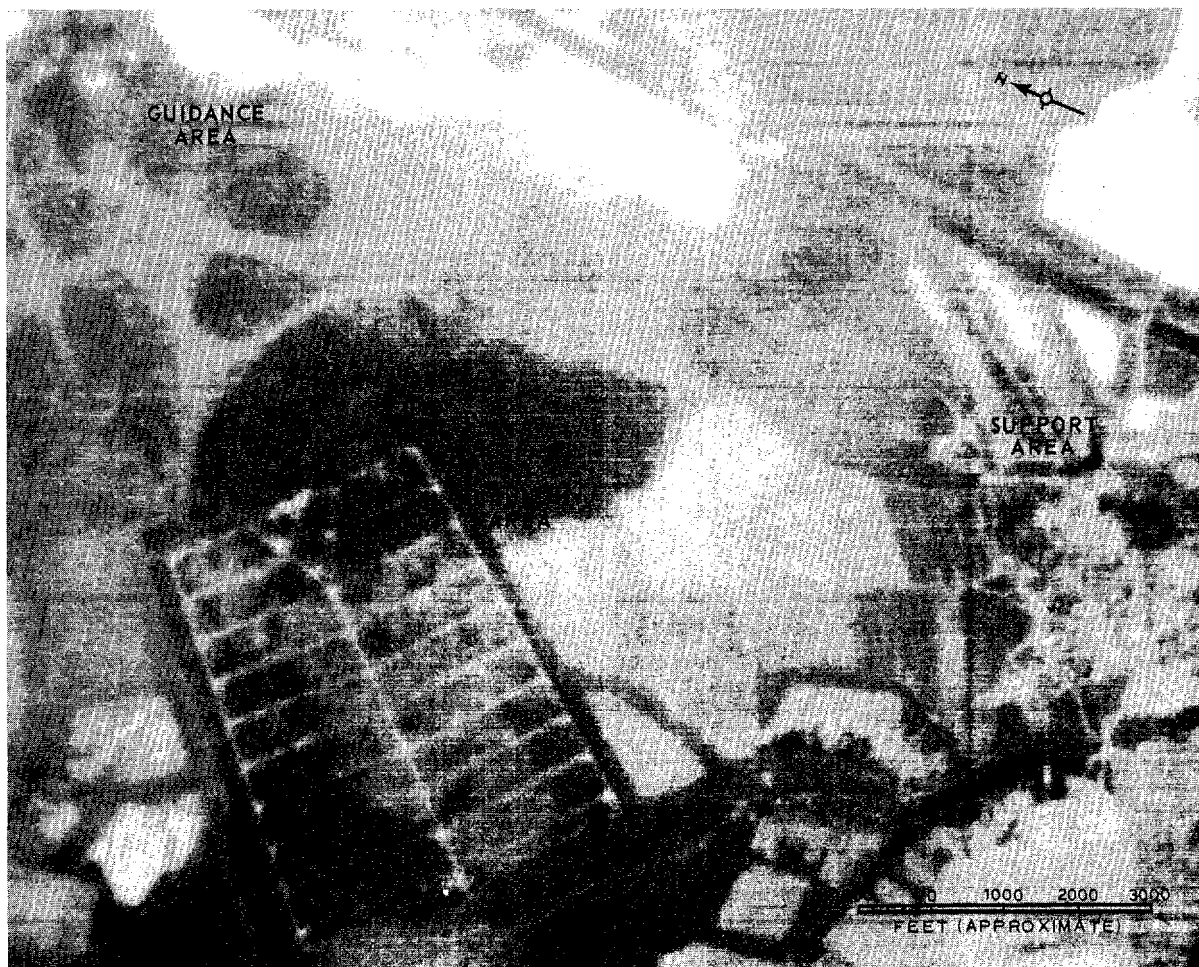


FIGURE 12. MOSCOW SAM SITE E23-1, [REDACTED]

25X1D

**25X1D**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

**Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1**

MOSCOW SAM SITE E24-1

25X1A

NPIC Target No: 0167-122-N

Coords: 55-21N 36-29E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

25X1D

25X1D

25X1D

Status then: identification only because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at

which time the site was complete, but additions to the site facilities were observed. At that time, three buildings, each 195 by 40 feet, (Figure 13, Item 1) had been constructed at the southeast corner of the support area. In [REDACTED] two additional 195-by 40-foot buildings had been constructed in the support area and construction activity was observed at the southeast corner of the launch area. On photography of [REDACTED] two buildings (Fig-

25X1D

25X1D



FIGURE 13. MOSCOW SAM SITE E24-1, [REDACTED]

NPIC H-7001 (1/64)

25X1D

NPIC/R-71/64

ure 13, Items 2 and 3), 100 by 100 feet, possibly AMM associated with a circular object on each roof, had been constructed and a 225-by 125-foot building (Item 4) was under construction. Also, at that time, an unidentified T-shaped ground pattern (Item 5) was observed 750 feet northwest of the rectangular building.

On photography of [REDACTED] the rectangular building, 225 by 125 feet, had been completed with an unidentified circular object on the rear of the roof. A cleared area (Item 6) located in the notch on the north side of the launch area was observed on [REDACTED] had increased in size by [REDACTED]

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

25X1D



MOSCOW SAM SITE E25-1

NPIC Target No: 0167-122-D

Coords: 55-27N 36-24E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage:

Status then: undetermined because of haze and darkness

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 14).



FIGURE 14. MOSCOW SAM SITE E25-1, [REDACTED]

25X1D

25X1D

Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1

Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1

MOSCOW SAM SITE E26-1

25X1A

NPIC Target No: 0167-122-P

Coords: 55-36N 36-19E

Map Ref: DIA Sheet 0167-4HL, 2ded, Mar 63 (S)

First KEYHOLE coverage: [REDACTED]

Status then: identification only because of haze and darkness.

The first clear coverage of the site on KEYHOLE photography was in [REDACTED] at which time the site was complete. At that time, two areas of unidentified activity (Fig-

25X1D

25X1D

25X1D

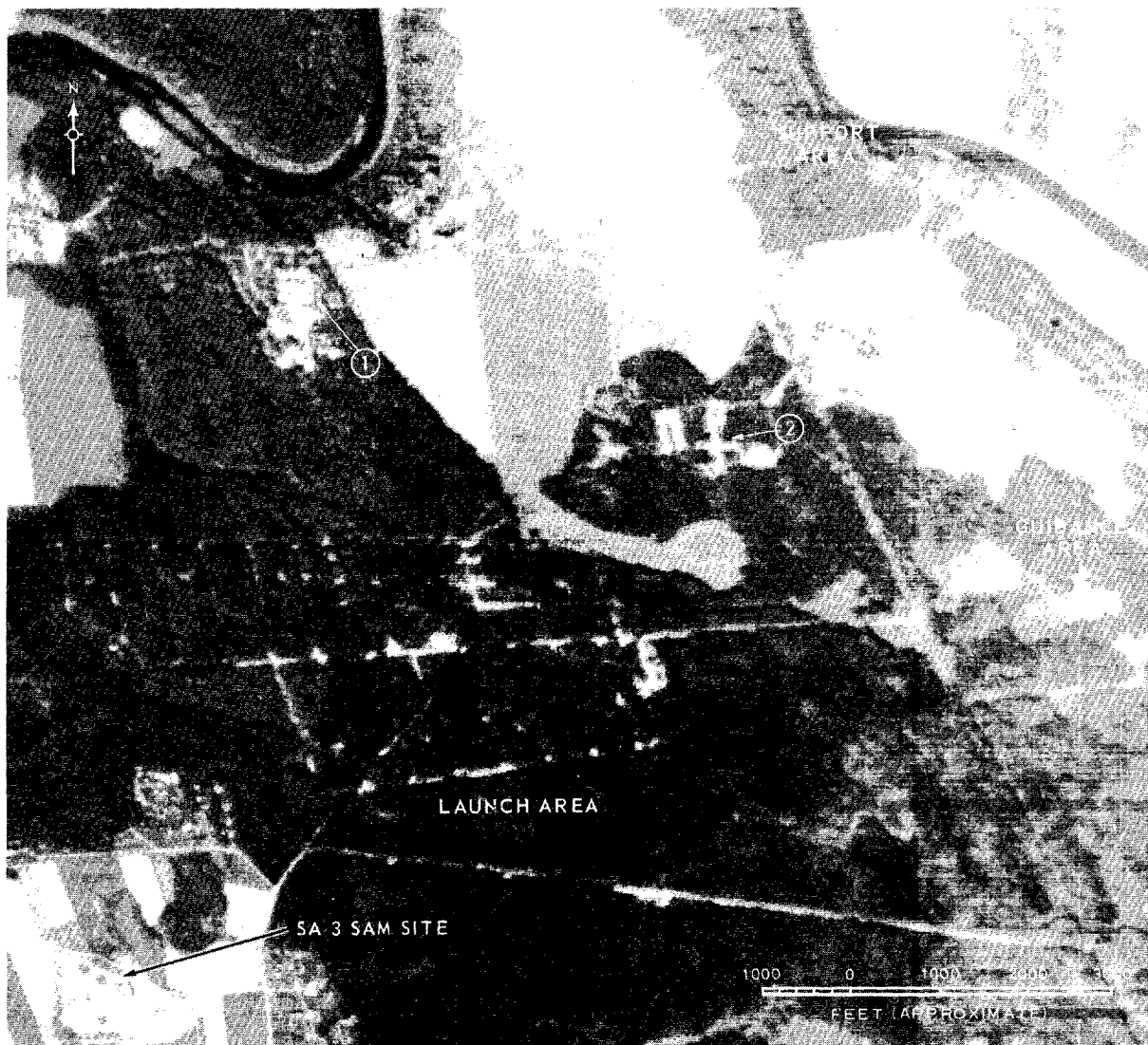


FIGURE 15. MOSCOW SAM SITE E26-1, [REDACTED]

NPIC H-7003 (1/64)

NPIC/R-71/64

ure 15, Items 1 and 2) were observed. No change in this activity or the site was observed between [REDACTED]

The SA-3 SAM site E26-3 [REDACTED]

[REDACTED] of the G configuration was first observed

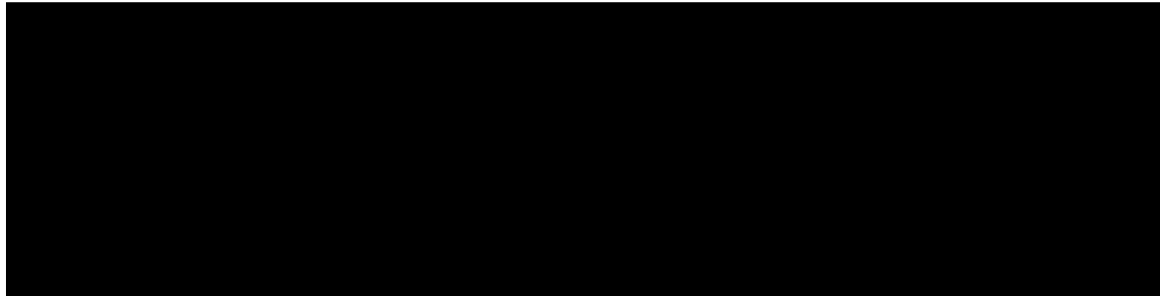
in [REDACTED] when ground scars, indicating construction, were noted just south of the SA-1 launch area. It was identified in [REDACTED] and appeared to be in the latter stages of construction in [REDACTED]

25X1D

25X1D

25X1D

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)





MOSCOW SAM SITE E27-1

NPIC Target No: 0167-122-Q

Coords: 55-44N 36-16E

Map Ref: DIA Sheet 0167-41IL, 2ded, Mar 63 (S)

First KEYHOLE coverage:

Status then: identification only because of haze and darkness

The first clear coverage of the site on

KEYHOLE photography was in [REDACTED] at which time the site was complete. No changes in the site were observed between [REDACTED] (Figure 16).

The SA-3 SAM site E27-3 [REDACTED] of the G configuration was first observed, under construction, just west of the SA-1 launch area in [REDACTED] construction was continuing.

KEYHOLE PHOTOGRAPHIC COVERAGE (all TOP SECRET RUFF)

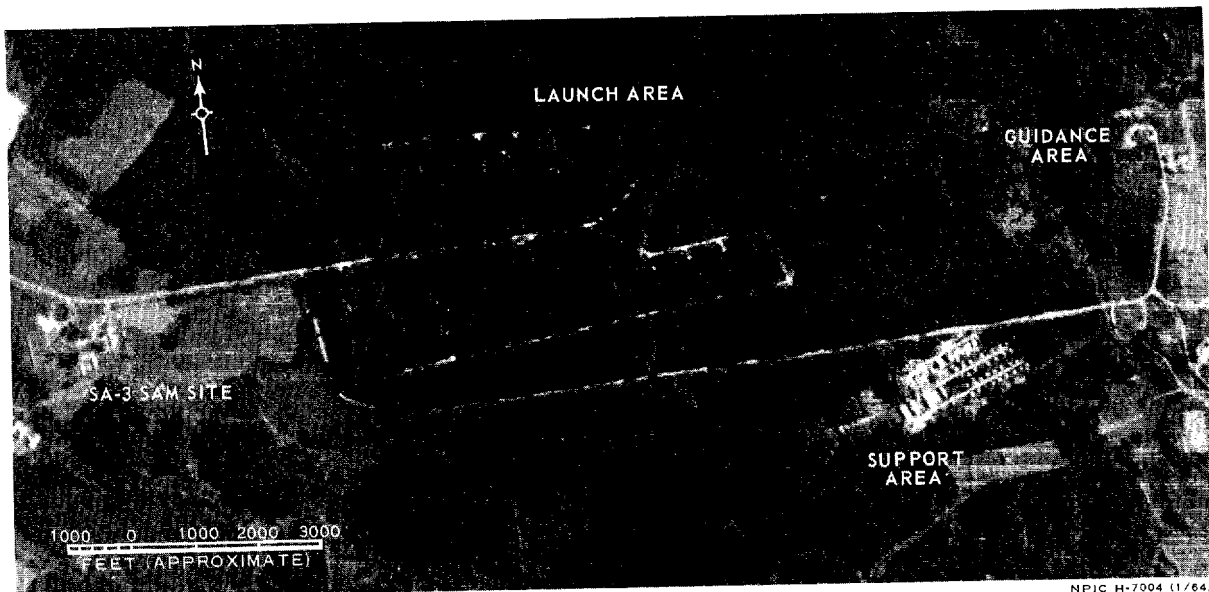
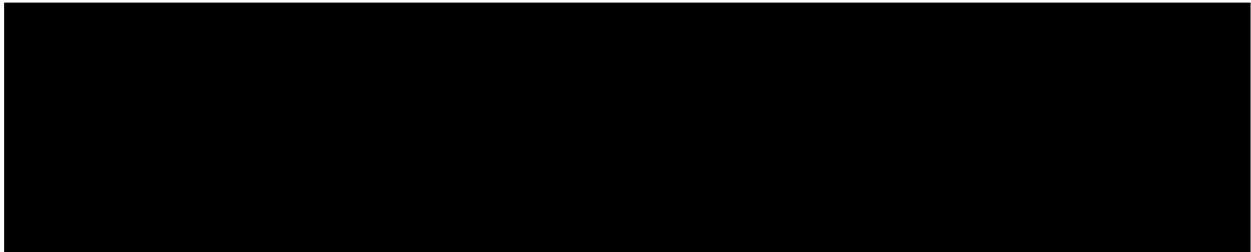


FIGURE 16. MOSCOW SAM SITE E27-1

~~TOP SECRET RUFF~~  
Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1

NPIC/R-71/64

#### REFERENCES

#### REQUIREMENT

CIA. C-RR3-80375

#### NPIC PROJECT

JN-212/62 (partial answer)

Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1  
~~TOP SECRET RUFF~~

~~TOP SECRET~~  
Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1

Approved For Release 2001/03/03 : CIA-RDP78B04560A002100010013-1  
~~TOP SECRET~~